

20000219.qrp v01\_n736.qrl.20000219

Date: Sat, 19 Feb 2000 19:03:10 EST

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 1736

QRP-L Digest 1736

Topics covered in this issue include:

- 1) [63595] Re: One of our own!  
by "Dan W. Dooley" <dandooley@pipeline.com>
- 2) [63596] {PROP} STORM/AURORA ALERT  
by "Paul Harden, NA5N" <na5n@rt66.com>
- 3) [63597] Re: dipole and ladder line - cutting  
by "Don Wilhelm" <w3fpr@arrl.net>
- 4) [63598] G-QRP CD  
by "Mark Hogan" <mhogan@email.msn.com>
- 5) [63599] Re: KD1JV SA/SA  
by "KA5T Larry Wise" <lewise@inetport.com>
- 6) [63600] Re: One of our own!  
by Shepherd@aol.com
- 7) [63601] One more PSK & then I'll clam it . . .  
by "Nils R. Young" <nilsbull@juno.com>
- 8) [63602] RSGB  
by W8IRQ@aol.com
- 9) [63603] FS: remaining  
by "KA5T Larry Wise" <lewise@inetport.com>
- 10) [63604] K2 ON 2M SSB!  
by AC6JA@aol.com
- 11) [63605] Re: One of our own!  
by KR0Y@aol.com
- 12) [63606] Foxhunt  
by "Wilford D. Lindsey" <70511.3041@compuserve.com>
- 13) [63607] re: One of our own!  
by Shepherd@aol.com
- 14) [63608] MFJ CUB.....It's alive!!!  
by tom whalen <wb5qyt@eFortress.com>
- 15) [63609] Re: OT: CD-Rom  
by "Mike Yetsko" <myetsko@insydesw.com>
- 16) [63610] Anyone near Memphis, TN?  
by "Mark Burton" <rburton2@midssouth.rr.com>
- 17) [63611] HA3PT QSL buro?  
by N10DL@aol.com
- 18) [63612] Re: dipole and ladder line - cutting  
by Ed Loranger <we6w@netzero.net>
- 19) [63613] Attention QSP31 ops

- by hamjoel@juno.com
- 20) [63614] Correct qsp to PSK OPS .... SRI :-)  
by hamjoel@juno.com
- 21) [63615] HW8 Meter Needed...??  
by "Andy GM0NWI" <Gm0nwi@tesco.net>
- 22) [63616] FS: Icom FL-53A CW Narrow Filter  
by "Rod, N0RC" <n0rc@yahoo.com>
- 23) [63617] Re: OT: CD-Rom  
by "John J. McDonough" <wb8rcr@arrl.net>
- 24) [63618] Re: One more PSK & then I'll clam it . . .  
by "George T. Baker" <w5yr@att.net>
- 25) [63619] Re: dipole and ladder line - cutting  
by "Don Wilhelm" <w3fpr@arrl.net>
- 26) [63620] Re: RSGB  
by "Michael Bower - N4NMR" <bowerm@ix.netcom.com>
- 27) [63621] Subject: 6L6's, etc  
by Ray Colbert <af852@rgfn.epcc.edu>
- 28) [63622] Re: Contesting on WARC bands  
by k5zty@juno.com
- 29) [63623] 160 Meter fun.  
by Ed Loranger <we6w@netzero.net>
- 30) [63624] K1MG Freq counter.  
by Robert P Engelman <rengelwb8uoj@juno.com>
- 31) [63625] Weak signal DXing.  
by "Andrew J. O'Brien" <obrienaj@netsync.net>
- 32) [63626] SST schematic should be posted on Net  
by "Tom Bowman" <tbowman@nbn.net>
- 33) [63627] Contest Bands  
by radioham@home.com
- 34) [63628] Metering made easier  
by "AI2Q Alex" <ai2q@ispchannel.com>
- 35) [63629] ARRL DX INT> ..... 10 meters  
by osier <osier@northnet.org>
- 36) [63630] Re: Contest Bands  
by af852@rgfn.epcc.edu (William R Colbert)
- 37) [63631] dx pileups  
by hamjoel@juno.com
- 38) [63632] FOX: PREMIMINARY RESULTS - NOIT  
by Dave Sjolin <sjolin@swbell.net>
- 39) [63633] RK6AX ..... 90 mW !!!!!!!  
by osier <osier@northnet.org>
- 40) [63634] power Supply  
by "Eddie" <Eddie@nac.net>
- 41) [63635] Re: 160 Meter fun.  
by sherers@gate.net (Administrator)
- 42) [63636] Re: RK6AX ..... 90 mW !!!!!!!  
by Dan Copeland <n0dt@alltel.net>
- 43) [63637] [PROP] Looking for Auroral Map URL

- by "K3GM" <k3gm@home.com>
- 44) [63638] [Summary] New to List  
by KF4YYD@aol.com
  - 45) [63639] Re: [PROP] Looking for Auroral Map URL  
by Dave Sjolín <sjolin@swbell.net>
  - 46) [63640] [Summary] Twin-T AF OSC  
by KF4YYD@aol.com
  - 47) [63641] DXCC fun with ISOTRON 20 meter antenna  
by N10DL@aol.com
  - 48) [63642] A Friend Needs HW-16 Schematic  
by "Kevin F. Glynn" <kfglynn@mindspring.com>
  - 49) [63643] Fox: Preliminary Results - N0IT - Revised  
by Dave Sjolín <sjolin@swbell.net>
  - 50) [63644] Re: DXCC fun with ISOTRON 20 meter antenna  
by EuroM6@aol.com

-----

Date: Fri, 18 Feb 2000 18:00:31 -0600  
From: "Dan W. Dooley" <dandooley@pipeline.com>  
To: <Shephed@aol.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [63595] Re: One of our own!  
Message-ID: <002601bf7a6c\$8b8ea020\$05987b7b@CSS0048.bergenbrunswick.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Man! Half the issue was devoted to QRP topics it seems.

Methinks I'm gonna have to start collecting parts for a TT2!

Dan W. Dooley WB5TKA Bedford, Texas EM12ku  
e-mail to: dandooley@pipeline.com  
May Goddes love blest ye alle  
SOC#198  
"Ancient Pistol, I do partly understand your meaning."

-----Original Message-----  
From: Shephed@aol.com <Shephed@aol.com>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Date: Friday, February 18, 2000 5:37 PM  
Subject: One of our own!

>Hugh congrats go to Doc, K0EVZ.

>Check out the Correspondence section (page 24, Kidnapped By QRP by Gerry,  
>K1LR0/7) of the March, 2000 QST.  
>  
>Now, I want you autograph Doc. :-)  
>  
>BTW, I love the attention that QRP gets in this issue, think people are  
>starting to notice?  
>  
>72, 73, oo's  
>Dan, N8IE Kettering,Oh  
>FPqrp #-6, QRP-1 #1404, FISTS #4985, Zombie #667  
><http://members.aol.com/shephed/n8ie.htm>

-----  
Date: Fri, 18 Feb 2000 17:41:22 -0700 (MST)  
From: "Paul Harden, NA5N" <na5n@rt66.com>  
To: qrp-1@lehigh.edu  
Subject: [63596] {PROP} STORM/AURORA ALERT  
Message-ID: <Pine.SUN.4.10.10002181720270.21448-1000000@shell.rt66.com>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Gang,

The sun has been fairly quiet for some time, and we are entering the low point of the 28-day solar cycle, with the solar flux this weekend being only around 140. In spite of this ho-hum behavior, the sun did produce an M3 flare yesterday from a ho-hum region that surprised everyone. And this flare is perfectly GEOEFFECTIVE ... that is, the shockwave will strike the earth nearly dead-on around mid-afternoon saturday. The shockwave left the sun traveling about 800 km/sec., or a mere million miles per hour!

THIS WILL TRIGGER A GEOMAGNETIC STORM. Predictions from NOAA suggest the A-index will be somewhere between 30-50, which is a MINOR to MAJOR geomagnetic storm.

These things are always hard to predict in terms of the real effect, but if you are working the ARRL DX contest tomorrow and the lower bands sound pretty cruddy and noisy, you'll know what happened.

This arriving shock wave, combined with several hours today of very high proton activity hitting the earth, means there is a high potential of AURORA ACTIVITY saturday night in the northern latitudes. It may extend into the northern US states.

FOR THE ARRL DX CONTEST ... 10M will have some activity, but a bit weak

due to the low 140 solar flux. 20 and 15M will be the bands showing the dominant activity. 40M will likely be of little use for DX QSO's saturday night due to the expected geomagnetic storm and possibly high D-layer absorption.

Always explore all the bands ... but if 10M seems anemic and 40M is awful, well ... at least you'll know why. That's the main point here, to put QRPers on the cutting edge of technology :-)

There was also a coronal mass ejection (CME) today, evidently from just beyond the sun's limb, that showered the earth for awhile with energetic protons. This won't really cause much effect on the HF bands, but it could enhance auroral activity, and such events always places our satellites in jeopardy from various forms of damage.

Have a nice weekend, and GL for those of you wanting to work the ARRL DX contest.

72, Paul NA5N  
-----

Excerpts from today's RSGA (Report of Solar-Geophysical Activity)

> JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
> SDF NUMBER 049 ISSUED AT 2200Z ON 18 FEB 2000

> IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 17/2100Z  
> TO 18/2100Z: SOLAR ACTIVITY WAS LOW.

> IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE  
> MOSTLY LOW WITH A REMOTE CHANCE OF AN ISOLATED M-CLASS EVENT.

> IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 17/2100Z TO 18/2100Z:  
> THE GEOMAGNETIC FIELD WAS QUIET. THE GREATER THAN 10 MEV PROTONS AT  
> GEOSYNCHRONOUS ORBIT WERE AT HIGH LEVELS FROM 18/1130 TO 18/1405UT.  
> AFTER THAT TIME THEY REMAINED AT MODERATE LEVELS FOR THE REST OF THE  
> PERIOD.

> IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS  
> EXPECTED TO BE QUIET TO UNSETTLED FOR THE FIRST DAY OF THE PERIOD.  
> THE SECOND AND THIRD DAYS OF THE PERIOD ARE EXPECTED TO SEE ACTIVE  
> TO MINOR STORM LEVELS WITH POSSIBLE MAJOR STORMING AT HIGHER  
> LATITUDES. THIS WILL BE THE RESULT OF THE SHOCK FROM A FULL-HALO CME  
> PRODUCED BY THE M2/2N EVENT ON FEBRUARY 17TH.

Day two and three refers to saturday and sunday

> IV. PENTICTON 10.7 CM FLUX



>  
>

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Get your FREE Internet Access and Email at  
<http://www.netzero.net/download/index.html>  
-----

Date: Fri, 18 Feb 2000 19:17:56 -0600  
From: "Mark Hogan" <mhogan@email.msn.com>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [63598] G-QRP CD  
Message-ID: <004c01bf7a77\$7fef4f70\$9ee90181@cityweb.gov>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Well I've finally gotten around to putting my G-QRP cd (first 100 issues of SPRAT) on the pc. What a nice job they did on this one. The pdf's are very clear, and the index is great! You can look up by issue, call, topic, search by word etc. The pdf's print as clear as if you had the issue in front of you. The program is very fast and easy to use. Funkamateur should be praised as well! This is just a nice job. For the price ~\$25 everyone should have a copy of this cd. I've been in and out of G-QRP, (in now) for over 10 years and they have always had a very good magazine. The members pages is a nice column to read, keeps ya up on the well traveled.

<https://www.funkamateur.de/spratcd/spratord.htm>

Usual disclaimers yada yada... just real surprised and a happy consumer.

Mark Hogan N50BC  
SST-40 / 38s Speed-X Bug  
NC-20 / FT847 Code Warrior Jr.  
Zombie 660, SOC 185, G-QRP 4972, AR QRP 246, all that junk...

>

-----

Date: Sat, 19 Feb 2000 01:35:40  
From: "KA5T Larry Wise" <lewise@inetport.com>  
To: "qrp" <qrp-l@lehigh.edu>  
Subject: [63599] Re: KD1JV SA/SA  
Message-ID: <200002190133.TAA05160@admin.inetport.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

This item is spoken for,  
thanks,

Larry KA5T  
Georgetown, TX

-----  
Date: Fri, 18 Feb 2000 20:36:10 EST  
From: Shephed@aol.com  
To: qrp-l@lehigh.edu  
Subject: [63600] Re: One of our own!  
Message-ID: <1c.f1169a.25df4d8a@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

In a message dated 2/18/00 7:04:58 PM Eastern Standard Time,  
dandooley@pipeline.com writes:

> Man! Half the issue was devoted to QRP topics it seems.  
>  
> Methinks I'm gonna have to start collecting parts for a TT2!  
>  
>  
> Dan W. Dooley WB5TKA Bedford, Texas EM12ku

72, 73, oo's  
Dan, N8IE Kettering, Oh  
FPqrp #-6, QRP-l #1404, FISTS #4985, Zombie #667  
<http://members.aol.com/shephed/n8ie.htm>



Date: Fri, 18 Feb 2000 20:39:03 -0500  
From: "Nils R. Young" <nilsbull@juno.com>  
To: QRP-L@lehigh.edu  
Subject: [63601] One more PSK & then I'll clam it . . .  
Message-ID: <20000218.203916.-171603.1.nilsbull@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit

Yoldashlar!

Well, that's two QSOs on PSK. I'm gettin' like the guy at work who has twenty chat rooms & three ICQs going at once & you'd think he was hosed up to a life line the way he gets when can't get to a keyboard. Once even two machines he had tied up with the stuff.

I tried out WinPSK & did some comparison shopping. I like the larger spectrum display on DigiPan, but it has uneditable "packaged" things like CQ & other stuff. WinPSK has a smaller (lower resolution) display but I could edit the CQ, brag "tape" (now there's a term that's gonna get eaten up by "non-tape" storage methods!) & other stuff. Even one button I could put my own name on. I like that.

So tomorrow it's the trip to Roger's that was supposed to happen today or something. And RS for a little plastic box.

I noticed only one person pumping heavy power (tonight's QSO guy). And it amazed me yesterday evening to see a station in Italy and one in VK-land on. And that their signals were not much more than enhanced zones of fuzz on the display. But this could get out of hand very easily. Especially at my typing speed.

And I won't digress into "speaking" a language & not being able to spell in it.

So . . . now to get reacquainted with that key doodad there on the table. . . Let's see if I remember now . . . was it dot or dash . . .

73

Nils

-----

Nils R. B. Young -- El Gringo Errante -- La Estancia de los Guajolotes  
Sonrientes  
<http://home.fiberia.com/wb8ijn> -- <http://members.xoom.com/nilsbull>  
"In my day we had to FIGHT to have signatures! Every DAY was a STRUGGLE!"  
-- Comrade Nikolai Sergeievich

McTovarishov

-----  
YOU'RE PAYING TOO MUCH FOR THE INTERNET!  
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Try it today - there's no risk! For your FREE software, visit:  
<http://dl.www.juno.com/get/tagj>.

-----  
Date: Fri, 18 Feb 2000 20:46:01 EST  
From: W8IRQ@aol.com  
To: qrp-1@lehigh.edu  
Subject: [63602] RSGB  
Message-ID: <b9.e6871a.25df4fd9@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

I ordered Les moxons book on antennas from RSGB on Jan 11. So far no book and no reply to my inquiries. Has anyone else had this problem? Nick W8IRQ

-----  
Date: Sat, 19 Feb 2000 01:57:03  
From: "KA5T Larry Wise" <lewise@inetport.com>  
To: "qrp" <qrp-1@lehigh.edu>  
Subject: [63603] FS: remaining  
Message-ID: <200002190158.TAA06926@admin.inetport.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

Complete QST CD SET. Includes:  
11 multi CD sets that cover 1915 thru 1994,  
4 single CDs with QST,QEX and NCJ for 1995 thru 1998.

\$340 shipped CONUS

TT-1330 30 meter xcvr built by me from kit.  
Works fine. Full documentation.

\$80 shipped CONUS

MFJ 9015 15 meter XCVR with manual.  
Has EMTECH audio filter soldered in.  
Seems to work fine.

\$100 shipped CONUS

TT1056 "Any Band Direct Conversion SSB/CW Receiver"  
Kit built into box ready to use. Not built by me.  
Full Documentation.

\$35 shipped Conus.

This is a TenTec T-Kit which is a receiver kit that includes all  
the parts to build up the receiver on any of the following bands:

160 80 40 30 20 17 15 12 10

It uses the NE612, LM358 and TDA2611A devices.  
The rig is currently built up for the 30m band. All of the parts  
for the other bands are included.  
Rig is installed in a 2 1/8 x 3 3/8 x 6 1/4 in box. The 5 control  
shafts come out of the 'front' (one of the 2 1/8 x 3 3/8 sides).  
No knobs are included.

The 'rear' has the following:

- S0259 Coax antenna connector

- Mini off/on switch

- Fuse holder for tubular fuse

- Phones jack

- Power cord thru grommated hole

'Top' has 8 holes drilled for speaker audio.

Speaker is mounted to 'top'.

Plastic stickon feet mounted on 'bottom'.

Requires 12VDC to operate.

Larry KA5T  
Georgetown, TX

-----

Date: Fri, 18 Feb 2000 21:00:38 EST  
From: AC6JA@aol.com  
To: eleccraft@qth.net, qrp-1@lehigh.edu  
Subject: [63604] K2 ON 2M SSB!  
Message-ID: <e3.16bae8b.25df5346@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

well finally got my ten tec 10m to 2m transverter working. turns out i had an open driver collector choke. that was easy enough to fix. now am using my K2 as a 10m IF and it's working great. i must admit i also use a mirage 100w amp. 5 watts on 2m is not the same as 5 watts on 10m! been working all over the greater bay area using only a 4 element cushcraft beam 30ft above sea level here in foster city.

anyways, been comparing the K2 versus my kenwood ts-570s using this setup and the K2 seems better all around, especially in receive.

lower noise level, greater sensitivity, and an EFFECTIVE noise blanker!

wonder if there are any other K2's on 2???

hope to hear you on the "higher" bands.

mike ac6ja  
k2 #028

-----  
Date: Fri, 18 Feb 2000 21:03:09 EST  
From: KR0Y@aol.com  
To: qrp-1@lehigh.edu  
Subject: [63605] Re: One of our own!  
Message-ID: <42.1de75a7.25df53dd@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

In a message dated 2/18/00 5:37:31 PM Central Standard Time, Shephed@aol.com writes:

<< Check out the Correspondence section (page 24, Kidnapped By QRP by Gerry, K1LR0/7) of the March, 2000 QST. >>

March???? I haven't got mine yet....darn, I'm always the last to get anything. <VBG>

John - KR0Y  
Springfield, MO

-----  
Date: Fri, 18 Feb 2000 21:25:08 -0500  
From: "Wilford D. Lindsey" <70511.3041@compuserve.com>  
To: "INTERNET:hdeitz@ms.rose.cc.ok.us" <hdeitz@ms.rose.cc.ok.us>  
Cc: "W.D.(Doc)Lindsey/K0EVZ" <70511.3041@compuserve.com>, QRP-L Discussion Group  
<QRP-L@Lehigh.edu>  
Subject: [63606] Foxhunt  
Message-ID: <200002182127\_MC2-99C3-618@compuserve.com>  
MIME-Version: 1.0  
Content-Transfer-Encoding: 7bit  
Content-Type: text/plain;  
charset=us-ascii  
Content-Disposition: inline

Hal:

Well I believe no one has mentioned the possibility that maybe you just didn't make it :-). After all, not all hunters are successful. Been many times over the years when guys called the whole time, only to go away disappointed. And as a FOX I have always missed some as time simply ran out.

So.....work on those antennas. Better luck next time, and never give up.

72,

--Doc Lindsey/K0EVZ  
DSBF  
PO BOX 6028  
Bismarck, ND 58506  
K0EVZ@arrl.net

-----  
Date: Fri, 18 Feb 2000 21:31:34 EST  
From: Shephed@aol.com  
To: qrp-l@lehigh.edu  
Subject: [63607] re: One of our own!  
Message-ID: <ea.217e24a.25df5a86@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

In a message dated 2/18/00 7:04:58 PM Eastern Standard Time,  
dandooley@pipeline.com writes:

> Man! Half the issue was devoted to QRP topics it seems.

>

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>  
>  
> Dan W. Dooley WB5TKA Bedford, Texas EM12ku

I love it! I hope the trend continues.

Also, thanks Gerry for sharing this story. Doc was a big boost for me as well when I first got into HF, he even had me do the N/T+ Fox Hunt.

Doc should be in the QRP Hall of Fame one of these days, any seconds?

72, 73, oo's  
Dan, N8IE Kettering, Oh  
FPqrp #-6, QRP-1 #1404, FISTS #4985, Zombie #667  
<http://members.aol.com/shephed/n8ie.htm>

-----  
Date: Fri, 18 Feb 2000 14:34:57 -0700  
From: tom whalen <wb5qyt@eFortress.com>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [63608] MFJ CUB.....It's alive!!!  
Message-ID: <38ADBB01.6525@eFortress.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Gang,

Just finished building the new MFJ CUB(15 meter) version.

Only took about 2 hours from start to first qso!! Must be my lucky day!

First qso was with JI7NUF and of course got a 599(yep, it's a contest!)

Went together without a hitch, excellent manual, quality parts.

The receiver is HOT HOT with good selectivity. Plenty of audio into the headphones. Nice sidetone(listening to the actual signal...Love that feature just like in the SST).Covers 60kc of the band.

QSK is smooth and fairly fast. Thump free. Puts out 1 watt.

So, were doing the Happy Dance here tonight! Got to run....have to put it into the case and get back on the air for some more Q's before the

band folds!

Usual disclaimers....just a happy dancin' customer!  
Yep, I would highly recommend this kit, even for a first time builder.  
Heck, they put on most of the parts anyhow! Love those SMD's!

72, Tom WB5QYT...."Have spud will travel!"

-----  
Date: Fri, 18 Feb 2000 18:53:05 -0500  
From: "Mike Yetsko" <myetsko@insydesw.com>  
To: <wb8rcr@arrl.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [63609] Re: OT: CD-Rom  
Message-ID: <003601bf7a83\$c3cf2420\$8aa9fea9@dads-hp>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Must be a local thing. 'Spindles' of 50 blank CDR are about \$38  
here. And Maxell CD-R74s in the jewel cases are two boxes  
of ten each for a total of 20 blanks were \$18 earlier this week.

Mike

>This was true just a few months ago. However, for the past 2-3 months,  
>CD-RW media has been cheaper, at least locally, than CD-R!  
>  
>A year or so ago, CD-RW were about \$15 each, compared to \$3 for CD-R at the  
>office supply. Although I could go to a show and get CD-R's for about a  
>buck, I couldn't do any better on CD-RW.  
>  
>Now, CD-R's at the office store are generally around \$2, sometimes dropping  
>a bit lower, while CD-RW seem to be closer to a buck. Go figure! Best  
show  
>price for the CD-R's continues to be around a buck, and I really haven't  
had  
>much incentive to go looking for the best price for CD-RW, when they are  
>10/\$9.99 at Staples, why bother driving an hour each way to a trade show  
>(I'm out in the boonies).  
>  
>72/73 de WB8RCR      <http://members.home.com/wb8rcr/index.htm>  
>didileydadidah      QRP-L #1446 Code Warriors #35  
>  
>  
>

-----  
Date: Wed, 16 Feb 2000 07:07:22 -0800  
From: "Mark Burton" <rburton2@midssouth.rr.com>  
To: <qrp-l@lehigh.edu>  
Subject: [63610] Anyone near Memphis, TN?  
Message-ID: <001301bf788f\$87056f40\$8e5f5c18@midssouth.rr.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Is there anyone on the list located near Memphis, TN?  
TNX,  
Mark - WB4TGB  
Germantown, TN

-----  
Date: Fri, 18 Feb 2000 22:12:24 EST  
From: N10DL@aol.com  
To: qrp-l@lehigh.edu  
Subject: [63611] HA3PT QSL buro?  
Message-ID: <69.158340f.25df6418@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

Does anyone know what the QSL buro is for Janos, HA3PT? I connected with him  
the other night and he said to QSL via the Buro. Any help would be  
appriciated.

Thanks  
Aron  
N10DL  
Bedford, NH

-----  
Date: Fri, 18 Feb 2000 19:19:11 -0800  
From: Ed Loranger <we6w@netzero.net>  
To: Low Power Amateru Radio Discussion <qrp-l@lehigh.edu>  
Subject: [63612] Re: dipole and ladder line - cutting  
Message-ID: <38AE0BAF.1832BDD0@netzero.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii



Content-Transfer-Encoding: 7bit

Well I think I've got it! My feedline was just able to reach the ATU. So I cut the feedline and it still connects to the ATU. I cut it some more and was still able to connect to the ATU. In fact, I hear the best place for the ATU is right at the antenna terminals. However, the 50 Ohm line leading to the ATU had to be lengthened considerably. It is however fortunate that I keep the ladder near the roof so it isn't too bad reaching the ATU to rematch at different bands.....

72/Ed we6w

Well? It's still Friday : )

--

72/Ed we6w; A-1 OP; SOC#63; QRPL#1068

<http://www.qsl.net/we6w> Santa Rosa, CA

QRP-Z#106 AR#112 HI#64 ARCI#9397 ARS#275 NC#2227

-----  
Date: Fri, 18 Feb 2000 22:41:28 -0500

From: hamjoel@juno.com

To: qrp-1@lehigh.edu

Subject: [63613] Attention QSP31 ops

Message-ID: <20000218.224224.-70547.1.hamjoel@juno.com>

MIME-Version: 1.0

Content-Type: text/plain

Content-Transfer-Encoding: 7bit

HIgh y'all

I hates to do this but I is gonna.... Serious stuffs heah....

I done checked with Steve.... the rewards guy.... and he says nobodies done sent in a km/w application for psk 31 yet.... YET is the magic word

So iffin u want a FIRST with UR NAME on it... u better get in a psk31 km/w contact quick.... should not be very hard to do....

I got the first SSTV certificate and was gonna go for the psk31... how-in-evers... I think someone else should enjoy getting a "first".... not too many left these days...

So on ur next psk31 contact, drop the power down and do the 1km/w thing and send a certificate to the other op also... this does wonders for promoting qrp on all modes...

aND give the list a post soes u can get a pat on the back and get someone started on the second and third etc certificates....

Joel KE1LA  
In Maine  
Thinking PSK31 in the sneaux

---

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<http://dl.www.juno.com/get/tagj>.

-----

Date: Fri, 18 Feb 2000 22:49:29 -0500  
From: hamjoel@juno.com  
To: qrp-1@lehigh.edu  
Subject: [63614] Correct qsp to PSK OPS .... SRI :-)  
Message-ID: <20000218.224930.-70547.2.hamjoel@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit

Joel KE1LA  
In Maine

---

YOU'RE PAYING TOO MUCH FOR THE INTERNET!  
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Try it today - there's no risk! For your FREE software, visit:  
<http://dl.www.juno.com/get/tagj>.

-----

Date: Fri, 18 Feb 2000 15:40:20 -0000  
From: "Andy GM0NWI" <Gm0nwi@tesco.net>  
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>  
Subject: [63615] HW8 Meter Needed..??  
Message-ID: <000901bf7a26\$7747bfc0\$8c57ac3e@q1n3l2>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hey Guy`s....

Here I am again looking for that "devine intervention" that y'all seem to provide  
for me when the "searchin" get`s touch...

Just spent the last few day's gettin' the beloved HW8 rig ready for a complete over haul (a long going saga if you've been followin' my "plea" postin's)....

The story is that I have been for a while now "ressurectin'" an old HW8 that I aquired some time back, it's coming along "fine 'n' dandy", as they say, I've had a fantastic amount of help from a great number of you guy's here on the list, and I thank you all again so much, without you I would'nt be able to do this challenge....

I am by nature physically handicapped, confined to a wheelchair for mobility, and thus find it hard to get to all the "flea market's" for those harder to find "bargains" as regard componants etc...

I am at the moment in need of a replacement "signal meter" for my HW8, as I have now found to my dismay that the original one is not working at all...(any idea's on the cause guy's), so will need to be looking for a working one to get the challenge back on track..

So..if there is anything that YOU think you might be able to help me with on this one, please can you e-mail me direct to the address below.... I will as always, offer, to pay for any item's found and there subsequent shipping etc...

Thanks again for the bandwidth guy's..... SO MUCH appreciated by this here individual, I can tell ya, more than you can imagine, thanks for the patience too..... there no doubt WILL be more "pleas" to come..

72's de Andy GM0NWI  
Long Live QRP...!!

G-QRP No.9576

-----  
Date: Fri, 18 Feb 2000 21:16:23 -0700  
From: "Rod, N0RC" <n0rc@yahoo.com>  
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>, "ncarc reflector" <ncarc@qth.net>  
Subject: [63616] FS: Icom FL-53A CW Narrow Filter  
Message-ID: <000b01bf7a90\$1cdd2ec0\$a0101004@compaq>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Current HRO price: \$180 + tax & shipping. My price \$150 no tax or shipping. ;-)

This is a 250Hz filter for the 455kHz IF; works in 706, 746, 756 maybe others.

---

72/3 Rod, N0RC -- Fort Collins, CO

-----  
Do You Yahoo!?

Talk to your friends online with Yahoo! Messenger.

<http://im.yahoo.com>

-----  
Date: Fri, 18 Feb 2000 23:19:11 -0500

From: "John J. McDonough" <wb8rcr@arrl.net>

To: <myetsko@insydesw.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Subject: [63617] Re: OT: CD-Rom

Message-ID: <0bd401bf7a90\$7acd08c0\$010044c0@Conor.baycty1.mi.home.com>

MIME-Version: 1.0

Content-Type: text/plain;  
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

-----Original Message-----

From: Mike Yetsko <myetsko@insydesw.com>

>Must be a local thing. 'Spindles' of 50 blank CDR are about \$38  
>here. And Maxell CD-R74s in the jewel cases are two boxes  
>of ten each for a total of 20 blanks were \$18 earlier this week.

Now that you mention it, I think I've seen the spindles for around a buck a CD or less, but I'm always looking for the jewel cases, so I sort of filtered those from my memory. I did pick up a package of 10 in jewel cases at Office Max or Staples or one of those for about \$12 a month or so ago, and was unable to write on a single one. Funny, too, these were a name brand, but not one I normally use (obviously). Most commonly I get white box CD's and after perhaps 100 or so have yet to find a single dud! I actually prefer the unbranded CD's - they come in a sturdier box for storing the backups and they have no printing on them.

72/73 de WB8RCR      <http://members.home.com/wb8rcr/index.htm>  
didileydadidah      QRP-L #1446 Code Warriors #35

-----  
Date: Fri, 18 Feb 2000 22:22:38 -0600  
From: "George T. Baker" <w5yr@att.net>  
To: nilsbull@juno.com  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [63618] Re: One more PSK & then I'll clam it . . .  
Message-ID: <38AE1A8E.F7E6C8A9@att.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Nils, dig around in DigiPan a little more and you will find that all the "buttons" can be configured with your choice of text and label.

It starts on the Menu bar at "Configure." You have 24 buttons, etc. that you can set up anyway you like. Plus you can encode commands to automatically turn on the transmitter at the start of a call, for example, and return to receive at the conclusion.

It has more configurability than any other PSK31 program that I have seen, and that is about all of them. Try again, and I think that you can have the big display plus being able to make that "brag" tape say anything you want - and that is truly a frightening prospect! ;^)

72/73, George  
Fairview, TX    30 mi NE Dallas in Collin county  
Amateur Radio W5YR, in the 54th year and it just keeps getting better!  
R/C since 1964 - AMA 98452    RVing since 1972      Kachina #91900556

"Nils R. Young" wrote:

> I tried out WinPSK & did some comparison shopping. I like the larger  
> spectrum display on DigiPan, but it has uneditable "packaged" things like  
> CQ & other stuff. WinPSK has a smaller (lower resolution) display but I  
> could edit the CQ, brag "tape" (now there's a term that's gonna get eaten  
> up by "non-tape" storage methods!) & other stuff. Even one button I could  
> put my own name on. I like that.

-----

Date: Fri, 18 Feb 2000 23:24:48 -0500  
From: "Don Wilhelm" <w3fpr@arrl.net>  
To: <we6w@netzero.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [63619] Re: dipole and ladder line - cutting  
Message-ID: <009501bf7a92\$34d436c0\$d6103604@dbw11main>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

If I may add a serious note to that 'tongue-in-cheek' statement - the loss in the matched coax just might exceed the loss in good low-loss ladder line even running a rather high SWR. And "it ain't necessarily so" that the best place for the ATU is at the antenna feedpoint.

72,73,  
Don Wilhelm -Chapel Hill, NC  
W3FPR QRP-L # 485 K2 SN 0020

----- Original Message -----  
From: Ed Loranger <we6w@netzero.net>

> In fact, I hear the best place  
> for the ATU is right at the antenna terminals. However,  
> the 50 Ohm line leading to the ATU had to be lengthened  
> considerably.

-----  
NetZero - Defenders of the Free World  
Get your FREE Internet Access and Email at  
<http://www.netzero.net/download/index.html>

-----  
Date: Fri, 18 Feb 2000 23:39:07 -0500  
From: "Michael Bower - N4NMR" <bowerm@ix.netcom.com>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [63620] Re: RSGB  
Message-ID: <01c101bf7a93\$42a11f60\$0100a8c0@dadsmachine>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Got mine two days ago. Ordered the day of the special sale announcement.

Michael - N4NMR

----- Original Message -----

From: <W8IRQ@aol.com>

To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Sent: Friday, February 18, 2000 8:46 PM

Subject: RSGB

> I ordered Les moxons book on antennas from RSGB on Jan 11. So far no book  
> and no reply to my inquiries. Has anyone else had this problem? Nick W8IRQ

-----  
Date: Fri, 18 Feb 2000 22:21:13 -0700

From: Ray Colbert <af852@rgfn.epcc.edu>

To: qrp-1@lehigh.edu

Subject: [63621] Subject: 6L6's, etc

Message-ID: <38AE2849.91F69731@rgfn.epcc.edu>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Last week, around the 10th I think, there was a little thread about some of the glowbug transmitters - 6L6's etc. Someone posted a message about using a 50C5 and I had indicated that I thought it was probably a 50L6 circuit, which was in vogue at that time. Well, I apologize to that person and the list because he/she was absolutely correct. I need to have my facts before engaging the typing transmission!!!:) I just ran across the article which I think was the one in question - not from QST but from Electronics Illustrated, March 1968, page 29-31 and page 109. Entitled "Bare Essentials Transmitter"; built on 10 x 6 x 3/4 piece of wood, taking the 110 volt, rectified and doubled for the plate voltage and using a 400 ohm 20 watt resistor to drop the voltage for the correct filament requirements (50v). Coils are wound on pill bottles, and power input is about 17 watts, according to the article. NOTE: If one does decide to build such a device, at least use back to back filament transformers, as there is a SEVERE SHOCK hazard with the type of voltage source used in this article. Always keep one hand in the pocket when working with equipment. Still a nice glowbug project, tho.

73

Ray

--

"The more I see of the representatives of the people,  
the more I admire my dogs."

letter from Count d'Orsay to John Foster 1850

-----  
Ray Colbert, W5XE, 00TC 3618, SOWP 1064M NARTE-NCT2  
(also w5xe@juno.com El Paso, (FAR WEST) TEXAS

-----  
Date: Fri, 18 Feb 2000 22:40:54 -0600  
From: k5zty@juno.com  
To: w6toy@erols.com, qrp-l@lehigh.edu  
Subject: [63622] Re: Contesting on WARC bands  
Message-ID: <20000219.001812.-519.1.k5zty@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit

HI Bruce,

You must not be a DXer. All of the big gun DXers that I know call it  
the 'ultimate' contest.  
Check in on one of the DX reflectors and ask if it is a contest. Those  
DXpedition pile ups that go on for days at a time sound like completion  
to me.

Bill, K5ZTY

-----  
Date: Fri, 18 Feb 2000 22:18:35 -0800  
From: Ed Loranger <we6w@netzero.net>  
To: Low Power Amateru Radio Discussion <qrp-l@lehigh.edu>  
Subject: [63623] 160 Meter fun.  
Message-ID: <38AE35BB.264DB274@netzero.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Worked Jack/WA7LNW tonight. It was tough getting  
thru. Jack was working a station ever 10 minutes and  
that station wasn't me! So I pumped the K2 up to  
QR0! Yup 7 to 10 watts, heart stopping power. I  
think the lights dimmed in the shack. Never have seen  
this kind of Hootie power before!

Worked Jack for a few minutes. I think he copied my  
antenna information. I know we got the requisite



QSO info our. Jack has an inverted "L" up 60 feet  
and I had a 3 foot tall, 6 turn coplanar loop up 1 foot.

Also had a 56 minute ragchew on 160 M with a neighbor  
about 10 miles East of here in Northern California. Lots  
of fun. Very quiet with the loop turned away from the QRN  
source locally.

Bob/W6BNB said that the JA's get to use 160 Meters starting  
in April. That's great.

I'm looking to build another loop for 160 meters. This time a  
single turn of 213 with split shield tune by the capacitor. I  
may break down and build one of those beautiful Butterfly  
capacitors Tony has on his webpage. Don't have Tony's URL  
handy. Search for Small Loop Antenna or something like that.  
I posted it before.

72/Ed we6w

--

72/Ed we6w; A-1 OP; SOC#63; QRPL#1068  
<http://www.qsl.net/we6w> Santa Rosa, CA  
QRP-Z#106 AR#112 HI#64 ARCI#9397 ARS#275 NC#2227

-----  
Date: Sat, 19 Feb 2000 02:14:34 -0800  
From: Robert P Engelman <rengelwb8uoj@juno.com>  
To: qrp-l@lehigh.EDU  
Subject: [63624] K1MG Freq counter.  
Message-ID: <20000219.021440.-179059.2.rengelwb8uoj@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit

Gang,

I just finished a K1MG counter / clock kit, and wanted to pass along what  
a nice addition this is to the shack. Mike did a GREAT job on the  
documentation, very easy to follow and he goes into detail on the  
operation of the clock / counter and rig applications. The kit went  
together flawlessly, and works fine. I have it on my almost finished  
2N2/40, and once the rig warms a bit the counter and rig are both rock  
solid.

I would recommend the K1MG counter to anyone who is looking for an inexpensive digital display to add to one or more rigs. I really like the fact that this thing can go from rig to rig, with different freq offsets depending on rig's needs. It's very cool. Mike deserves a pat on the back for putting together such a fine kit.

72

Bob WB8UOJ  
Grafton OH

-----  
Date: Sat, 19 Feb 2000 05:06:12 -0500  
From: "Andrew J. O'Brien" <obrienaj@netsync.net>  
To: <carcomm@egroups.com>  
Cc: <psk31@bipt106.bi.ehu.es>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [63625] Weak signal DXing.  
Message-ID: <000d01bf7ac0\$f4a7a440\$4b2014d0@obrienaj>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

In conducting a recent demo of PSK31, I tried to demonstrate how well PSK31 does in copying weak signals. However I had difficulty finding a truly weak signal, 20 M was full of S3 and above PSK signals. I looked on 40M and could not find any signals at all. I forgot to check 10 Meters but should have since my experience on 10 last night indicates that a dying 10M band is what PSK is for!

I tuned in 10M around 0200 using DigiPan's wide tuning display (easier to spot signals that the ear could not). I then worked several JA's and a VK5 all at extremely low signal levels on my low hung G5RV. Not one signal moved my S meter from it's S-0 position, the JA's were not audible to ear but gave 100% copy on the screen. While this is a familiar case with PSK31, I thought I would remind folks that there is more to PSK than 14070. QRP and PSK are made for each other!

73 de Andy KB2EQQ

-----  
Date: Sat, 19 Feb 2000 07:29:30 -0500

From: "Tom Bowman" <tbowman@nbn.net>  
To: <qrp-1@lehigh.edu>  
Subject: [63626] SST schematic should be posted on Net  
Message-ID: <LPBBKNCCFBPAKMPADLJMEBFCPAA.tbowman@nbn.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Two days ago, I asked for the location of the SST  
transceiver's schematic on the  
Net. I got two replies. One copy is headed my way.

I was told the SST schematic is not posted on the Net  
because it is copyrighted.

Before I get a ton of e-mail about the right of someone to  
recoup their  
investment in the SST - or in any other radio design - let  
me say this:

I agree. They have the right to make money.

But in the spirit of the hobby of amateur radio, please post  
a schematic  
of the SST on a web site so everyone can learn from it.  
There are lots  
of SST mods posted, but no schematic.

So maybe this is an oversight. If so, sorry for the  
bandwidth. But post  
the schematic.

In my case, I want to see how the SST AGC is derived, so I  
can make  
a similar circuit in my SW-40.

73,

Tom, WA3REY

---

<>> Tom Bowman, WA3REY, Mount Gretna, PA 17064  
QRP-L 125

-----  
Date: Sat, 19 Feb 2000 10:39:47 -0500  
From: radioham@home.com  
To: qrp-1@lehigh.edu  
Subject: [63627] Contest Bands  
Message-ID: <3.0.6.32.20000219103947.007937c0@24.2.2.70>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Am I missing something this year? I was just (~1430Z) listening to 17 meter SSB, went down to the CW portion to see if there was any activity, and there are all sorts of stations calling CQ test at incredibly high speeds. The ARRL website clearly limits the bands to the usual 6. Almost as weird as last nite when I clearly heard someone on 10 meter CW calling CQ Test at 2315Z (must have been from the twilight tome zone).

72/73,

Steve, N4EUK

-----  
Date: Sat, 19 Feb 2000 11:05:37 -0500  
From: "AI2Q Alex" <ai2q@ispchannel.com>  
To: <Gm0nwi@tesco.net>  
Cc: "QRP-L (E-mail)" <qrp-1@Lehigh.EDU>  
Subject: [63628] Metering made easier  
Message-ID: <000001bf7af3\$29fab100\$5c32a7d0@ispchannel.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hi Andy:

Do you need an \*exact\* replacement meter? If not, then you have the option of using almost any milliammeter. Let Mr. Ohm and his Laws be your guide.

What I typically do when I'm homebrewing is select a small low-current meter movement from the junkbox, and then measure its internal resistance. Once I know that, I determine the voltage drop across the meter at its full-scale rating.

You can measure internal resistance with a DMM (never a VOM!), or consult

the handbook for a simple substitution method using two pots and a battery or small low voltage power supply. But, I digress.

Select a small resistor to go in series with the load (in the rig; whatever stage that may be). The current that's being drawn at that point determines the approximate value of the resistor. Once I know the voltage drop across that resistor, I then make a meter multiplier for my milliammeter movement.

To find the value of the multiplier, I take the total voltage across the "shunt" resistor that's in series with the load, and subtract the full-scale (F.S.) voltage that I calculated would be across the movement (I know the F.S. current, and the internal resistance, so  $E = IR$ ).

Then I find the value of the multiplier by taking the difference voltage and dividing it by the F.S. rating of my meter movement. Usually I locate a small pot that's a bit higher in value, put it in series with the meter, and then calibrate it for a F.S. reading--in the final circuit application, or using a "standard" benchtop instrument of your choice.

As an example, I just added a little 0-1 mA meter to the HBX-2Q SSB transceiver I'm building. The meter has an internal resistance of 153 ohms. The voltage across it at that current would be  $E=IR$ , or  $0.001 (153) = 0.153$  V or 153 mV. Seems inconsequential, eh?

Well, I need to measure 500 mA in the drain circuit of my VN66AF power amplifier. If I put a 1-ohm resistor in that line, at 500 mA the voltage across that series resistor would be  $E=IR$ , or  $0.5 (1) = 0.5$  V. Gee, a half volt drop is something I can live with out of 13.8 V from a typical supply. :-)

So, if I subtract 0.153 V from 0.5 V, I get 0.347 V or 347 mV. To find the value of the meter multiplier pot, I divide 0.347 by 1 mA, or  $0.347/0.001$  to get 347 ohms. Reaching for a 500 ohm pot, I solder it in series with my meter and proceed to calibrate it, where the final setting will be 347 ohms (but I don't really care, as at this point I'm simply setting my new meter to full scale visually).

This is usually far easier to do than to try and wind a meter shunt of very low value. If you do that, it's hard to control the resistance at the terminals, soldered connections, etc. This method lets you precisely set the meter reading to what you desire. It does put a small "burden" in the form of an IR-drop on the circuit you're monitoring, but usually an ohm or two is tolerable. In my example, I lose a half volt.

To gild the lily, you can sometimes carefully open the meter, remove the scale dial plate, and repaint the scale to reflect the units you wish (you can add color warning bands and your callsign in there too; always a nice touch if you can open the meter movement).

GL es vy 73, AI2Q, Alex in Kennebunk, Maine QRP-L 687 .-.-.

-----Original Message-----

From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU] On Behalf Of Andy GM0NWI

Sent: Friday, February 18, 2000 10:40 AM

To: Low Power Amateur Radio Discussion

Subject: HW8 Meter Needed..??

Hey Guy`s....

Here I am again looking for that "devine intervention" that y'all seem to provide for me when the "searchin" get`s touch...

Just spent the last few day`s gettin` the beloved HW8 rig ready for a complete over haul (a long going saga if you've been followin` my "plea" postin`s)....

The story is that I have been for a while now "ressurectin`" an old HW8 that I aquired some time back, it`s coming along "fine `n` dandy", as they say, I've had a fantastic amount of help from a great number of you guy`s here on the list, and I thank you all again so much, without you I would`nt be able to do this challenge....

I am by nature physically handicapped, confined to a wheelchair for mobility, and thus find it hard to get to all the "flea market`s" for those harder to find "bargains" as regard componants etc...

I am at the moment in need of a replacement "signal meter" for my HW8, as I have now found to my dismay that the original one is not working at all...(any idea`s on the cause guy`s), so will need to be looking for a working one to get the challenge back on track..

So..if there is anything that YOU think you might be able to help me with on this one, please can you e-mail me direct to the address below.... I will as always, offer, to pay for any item`s found and there subsequent shipping etc...

Thanks again for the bandwidth guy`s..... SO MUCH appreciated by this here individual, I can tell ya, more than you can imagine, thanks for the patience too..... there no doubt WILL be more "pleas" to come..

72's de Andy GM0NWI  
Long Live QRP...!!

G-QRP No.9576

-----  
Date: Sat, 19 Feb 2000 11:56:15 -0500  
From: osier <osier@northnet.org>  
To: qrp-1@lehigh.edu  
Subject: [63629] ARRL DX INT> ..... 10 meters  
Message-ID: <38AECB2F.22135F5C@northnet.org>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Hello All !!!!

10 meters is HOT !!!!  
Worked 24 so far ..using 90 mW !!!!!  
Best one is RK6AX !!!!!  
NEW M.P.W. records for me !!!!!

HAPPY HAPPY !!!!!

73s  
George , N2JNZ/QRP

-----  
Date: Sat, 19 Feb 2000 09:56:02 -0700 (MST)  
From: af852@rgfn.epcc.edu (William R Colbert)  
To: qrp-1@lehigh.edu, w5xe@juno.com  
Subject: [63630] Re: Contest Bands  
Message-ID: <200002191656.JAA20145@rgfn.epcc.edu>

Well, they are not supposed to be operating contests on the WARC bands. Maybe the contest sponsors need to start issuing disqualifications to those who are trying to sneak ahead by using the WARC bands and see how fast they get back to the proper rules of the game. Heard a couple of 20 calling CQ NA - thought the NA sprint was last week or the week before - guess they going to have that dumb thing once a month now. Once a year is too much!!

--

"The more I see of the representatives of the people,  
the more I admire my dogs."

letter from Count d'Orsay to John Foster 1850

--

Ray Colbert, W5XE  
00TC 3618, SOWP 1064M  
El Paso, Tx (FAR WEST TEXAS!)  
also: w5xe@juno.com

-----

Date: Sat, 19 Feb 2000 12:55:59 -0500  
From: hamjoel@juno.com  
To: qrp-1@lehigh.edu  
Subject: [63631] dx pileups  
Message-ID: <20000219.125601.-247023.2.hamjoel@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit

High y'all

mho....on the subject.

dx is fun

dx can be an obsession

dx can be an adiction

YET

dx is only a FRAGMENT of amateur operation

THE trick , I think, is to put all the fragments , or many fragments ,  
together and develop a fondness for building , operating, and just  
ENJOYING the different fragments of interest...

Ham Radio is a rainbow of things to do... the more colours u use the  
closer u get to having the whole rainbow...

Joel KE1LA

In Maine

wondering why there are no rainbows after a sneaux storm

-----  
YOU'RE PAYING TOO MUCH FOR THE INTERNET!

Juno now offers FREE Internet Access!

Try it today - there's no risk! For your FREE software, visit:

<http://dl.www.juno.com/get/tagj>.

-----

Date: Sat, 19 Feb 2000 12:15:23 -0600  
From: Dave Sjolín <sjolin@swbell.net>  
To: Qrp-1 Reflector <qrp-1@Lehigh.EDU>



Subject: [63632] FOX: PREMIMINARY RESULTS - N0IT  
Message-ID: <38AEDDBA.64BD2478@swbell.net>  
MIME-version: 1.0  
Content-type: text/plain; charset=us-ascii  
Content-transfer-encoding: 7bit

Well guys it was a blast. I certainly have even greater respect for the guys who head off on those dxpeditions. Until you have seventy or more guys all answer your CQ, you don't have a clue to what it is like. During the first few minutes, I could barely remember my own call and exchange, much less anyone else's. Didn't record the time for the first ten minutes so I may be off slightly.

Don't feel bad if your signal report was only a 559. I gave that to just about everyone except a few times when I forgot. Most of you were actually around S9. After the first hour my S-meter never dropped below S9 even with the attenuator and narrow filter on. Big problem here (besides the operator) was the noise. QRM was terrible. Had thunderstorms nearby and apparently around the country. The SA SSB QRM didn't help but I appreciate you guys following me down on the qsy. Also at one point either had some crud from SW broadcaster or some home electronic equipment that was putting out a nice sig on 7042.

If you are ever the fox, I would advise against using your RIT too much. I was attempting to tune in the stronger sigs and when everyone is giving their call once, by the time you've got the guy centered, he has quit calling. Worked better when I learned to just find a frequency and pick up whoever came calling whether his tone was at 300 hz or 1200 hz.

Also it was amazing how often a couple strong stations would call qrmng each other and then way.. way down in the noise I would hear a clearly weaker sig cleanly popping thru to make it into the log.

Excluding dupes, I worked 66 stations. Those of you who made into the log, congratulations. Those who didn't, I'm sorry. I'm also sorry for the delay in posting these results. Next time I will computer log. I had to go back and decipher my hand scrawls and type up with word processor. In any event, if anyone needs any corrections to the log, let me know and I will post the final log late tonight.

Thanks again for a very INTERESTING TIME!!

73 de Dave, N0IT

Fox Log: N0IT

Time	Call	URRST	MYRST	QTH	Name #	PWR	Points
------	------	-------	-------	-----	--------	-----	--------

01:00	AB5UA	559	559	OK	Cliff	478	--	1
01:02	N5TW 579	579	TX	Tom	1474	--	1	
01:03	N4RO 579	599	VA	Dan	970	--	1	
01:04	N0DT 589	559	MO	Dan	1004	--	1	
01:05	N0EA 559	559	MO	Wayne	1058	--	1	
01:08	K0EVZ	569	569	ND	Doc	861	--	1
01:09	W0JOE	559	559	MO	Joe	1901	--	1
01:10	K5ZTY	559	559	TX	Bill	473	--	1
01:12	K10J 559	559	TX	OJ	732	--	1	
01:13	N5IW 559	559	TX	Dave	1718	--	1	
01:14	W0CH 559	559	MO	Dave	618	--	1	
01:16	N5EN 559	559	TX	Steve	2071	--	1	
01:17	K5JHP	559	559	TX	Bill	825	--	1
01:19	WS4S 559	589	TN	Conrad	993	--	1	
01:20	W5YR 559	559	TX	George	1373	--	1	
01:21	WD8KQY	559	579	OH	Gary	446	--	1
01:23	K5AAR	559	559	OK	Don	1512	--	1
01:24	AF4PS	559	579	FL	Mac	704	--	1
01:27	KA5T 559	559	TX			--	1	
01:28	W2XN 559	559	FL	Fred	1718	--	1	
01:30	N1TP 559	559	FL	Tom	1317	--	1	
01:32	N0UR 559	579	MN	Jim	799	--	1	
01:33	NQ7X 559	559	AZ	Floyd	343	--	1	
01:36	NK7M 559	579	AZ	Bob	271	--	1	
01:37	AF5Z 559	579	TX	Bob	984	--	1	
01:39	N0AR 559	559	MN	Scott	1455	--	1	
01:40	AJ4Y 559	579	FL	Paul	1795	--	1	
01:42	W0RW 559	599	CO	Paul	128	--	1	
01:46	KU7Y 559	559	NV	Ron	17	--	1	
01:50	N8IE 559	559	OH	Dan	1404	--	1	
01:56	WJ1R 599	559	RI	John	1945	--	1	
01:58	AE2T 559	559	NY	Al	1664	--	1	
01:59	N9SSA	599	559	MI	Pete	2109	100W	0
02:03	AB7CE	559	559	MT	Roy	1494	--	1
02:04	VE5RC	559	559	SK	Bruce	886	--	1
02:07	K4LL 559	569	KY	Len	--	5W	0	
02:08	W0RSP	559	569	SD	Ade	661	--	1
02:10	N8VAR	559	559	OH	Ron	263	--	1
02:11	AA0ZZ	559	559	MN	Craig	1238	--	1
02:12	W5HNS	559	569	TX	Henry	178	--	1
02:14	KK5LD	559	599	TX	Dan	2052	--	1
02:16	KB9IUA	559	559	IL	Kevin	384	--	1
02:17	K8CV 559	559	MI	Walt	935	--	1	
02:18	K1MG 559	549	CA	Mike	614	--	1	

02:20	WE6W	559	549	CA	Ed	1068	--	1	
02:21	WE7G	559	559	UT	Wayne	481	--	1	
02:23	VE3JC	559	549	ON	John	744	--	1	
02:24	KC1FB	559	559	CT	Jim	29	--	1	
02:26	VE6EWM	559	559	AB	Earl	1076	--	1	
02:28	AB0GO	559	559	CO	Dave	785	--	1	
02:29	K5UP	559	599	OK	Glenn	21	--	1	
02:30	N5GJQ	599	559	LA	Mike	--	4W	0	
02:35	AE4Y	559	559	GA	Kent	1844	--	1	
02:37	NV4V	559	559	KY	Pete	1721	--	1	
02:39	KG9H	559	579	IL	Frank	2142	--	1	
02:40	WB8YYY	559	559	MD	Curtis	2115	--	1	
02:41	KQ5U	559	559	TX	Terry	1603	--	1	
02:43	NK6A	599	559	CA	Don	1517	--	1	
02:45	N0EHW	559	559	O	Tim	2047	--	1	
02:46	N0TU	559	559	CO	Steve	911	--	1	
02:50	W7ILW	559	559	AZ	Howard	2010	--	1	
02:51	N5IB	559	559	LA	Jim	1913	--	1	
02:54	N5LU	559	579	OK	Bill	2009	--	1	
02:55	K1VP	559	559	NH	Ed	1960	--	1	
02:58	K5OI	559	559	NM	Tim	73	--	1	
02:59	KD5CM	599	559	TX	Mike	1328	--	1	
03:00	N9SSA	599	559	MI	Pete	2109	--	1	

-----

Date: Sat, 19 Feb 2000 15:26:12 -0500  
 From: osier <osier@northnet.org>  
 To: qrp-1@lehigh.edu  
 Subject: [63633] RK6AX ..... 90 mW !!!!!!  
 Message-ID: <38AEFC64.DEED6055@northnet.org>  
 MIME-Version: 1.0  
 Content-Type: text/plain; charset=us-ascii  
 Content-Transfer-Encoding: 7bit

Happy Happy !!!

wrkd RK6AX with 90 mW !!!!!!  
 57,356 M.P.W !!!!!!

NEW Record for me !!!!!!

73/74s

George , N2JNZ/QRP

-----  
Date: Sat, 19 Feb 2000 16:00:54 -0500  
From: "Eddie" <Eddie@nac.net>  
To: <qrp-L@Lehigh.Edu>  
Subject: [63634] power Supply  
Message-ID: <00e101bf7b1c\$69b2f5e0\$15757bd1@eddiepc>

If anyone wants to get rid of a power supply let me know. Im looking for one rated at 35 amps for base operation

73

-----  
Date: Sat, 19 Feb 2000 21:02:45 GMT  
From: sherers@gate.net (Administrator)  
To: we6w@netzero.net, qrp-l@lehigh.edu, secondclassopsclub@egroups.com  
Subject: [63635] Re: 160 Meter fun.  
Message-ID: <38b003fd.1285126@mailhost.gate.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: quoted-printable

Ed and the group,

When I search the web for info on a particular subject I usually find it post hast.

If you are not familiar with the following UTILITY give it a try. =20

goto: [www.ask.com](http://www.ask.com)

This is a search engine utility. Meaning that it accesses multiple search engines simultaneously. Works very fast and speeds up those searches trumendousley

Regards,

KE4LJH

Sebastian, Fl -80.49W 27.79N

SOC #131 QRP-L #2131

-----  
Date: Sat, 19 Feb 2000 15:03:25 -0600  
From: Dan Copeland <n0dt@alltel.net>

To: osier@northnet.org, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [63636] Re: RK6AX ..... 90 mW !!!!!  
Message-ID: <4.2.2.20000219150138.00a9ac70@pop.alltel.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

Well I have not done as well as George, but I  
just worked KH7R at 90mw on the K2. Thats  
44,083 MPW!!

This is fun!

Dan

At 03:26 PM 2/19/00 -0500, osier wrote:

>Happy Happy !!!

>

>w1kd RK6AX with 90 mW !!!!!

>57,356 M.P.W !!!!!!!!!

>

>NEW Record for me !!!!!

>

>73/74s

>

>George , N2JNZ/QRP

-----

Date: Sat, 19 Feb 2000 16:40:12 -0500

From: "K3GM" <k3gm@home.com>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Subject: [63637] [PROP] Looking for Auroral Map URL

Message-ID: <001d01bf7b21\$e71df2a0\$246e0c18@adubn1.nj.home.com>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Was wondering if anybody has a URL for a near-real time aurora map. The  
site I usually check, <http://solar.uleth.ca/solar/www/auroramap.gif> has been  
down for a couple of days now. I want to keep heads up for the arrival of  
the effects from the latest CME. Aurora=2 meter openings :) Thanks  
.....Tom K3GM

-----  
Date: Sat, 19 Feb 2000 16:49:19 EST  
From: KF4YYD@aol.com  
To: n2tpa@juno.com, n2zhy@amsat.org, franco@bnl.gov, wa4qdm@home.com,  
Macstein@aol.com, michaelbstjames@email.msn.com, mgoins@usa.net  
Cc: qrp-1@lehigh.edu  
Subject: [63638] [Summary] New to List  
Message-ID: <36.25705b7.25e069df@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

All,

I would just like to thank everyone who responded to my posting. It looks like I found the right group of people to get together with, even if not eyeball to eyeball. Now I even know what to do with my new QRP-L number! Again thanks a million, I'm sure I will use this group more and more as I get into the hobby.

BZ to the list  
KF4YYD, currently a ham radio and QRP nub. (but not for long)

Tom

-----  
Date: Sat, 19 Feb 2000 15:50:14 -0600  
From: Dave Sjolín <sjolin@swbell.net>  
To: k3gm@home.com  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [63639] Re: [PROP] Looking for Auroral Map URL  
Message-ID: <38AF1016.227E7777@swbell.net>  
MIME-version: 1.0  
Content-type: text/plain; charset=us-ascii  
Content-transfer-encoding: 7bit

K3GM wrote:

>  
> Was wondering if anybody has a URL for a near-real time aurora map. The  
> site I usually check, <http://solar.uleth.ca/solar/www/auroramap.gif> has been  
> down for a couple of days now. I want to keep heads up for the arrival of  
> the effects from the latest CME. Aurora=2 meter openings :) Thanks  
> .....Tom K3GM

Tom, try this web site. It also has the map which is stuck on 2/16 but

it has another oval which as of right now is still not showing any effects from the CME. The sight also has several magnetometer readings which show crazy when the particles hit the atmosphere.

<http://members.mint.net/n1bug/prop/aumon/aufr.html>

Good luck on the Aurora. 73 de Dave, N0IT

-----  
Date: Sat, 19 Feb 2000 17:21:24 EST  
From: KF4YYD@aol.com  
To: wb8qyy@one.net, wj5o@juno.com, jennings@eng14.r, "Bruce Muscolino"@erols.com, n5ib@juno.com  
Cc: qrp-l@lehigh.edu  
Subject: [63640] [Summary] Twin-T AF OSC  
Message-ID: <29.187ce0c.25e07164@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

All,

Thanks for the response!! I'm glad to see that I'm not the only one having trouble with this. I plan on going back down to my small dark corner of the basement and try it again as soon as my wife finishes finding things for me to do. Even though I am still somewhat skeptical about the output coming off of the capacitor, I'm going to whip up an emitter follower to use as a high Z buffer and see what I get. BTW for those of you also having trouble with this ckt. from the responses I received it appears that without a buffer on the output you stand a very good chance of loading down the Osc. to the point where it will fail to operate. If one reads the article from the "Handbook" you might pick this up, as it casually mentioned at the very end.

One of my personal gripes about the ARRL - Instead of publishing the exact same book every year with a different cover and a few different pictures, why don't you actually update the damn thing and release a new issue every 2-5 years or so!! Then publish a yearly journal with projects from QEX and QST ect. OK time to get off the soapbox...Coming honey ; )

Tom KF4YYD QRP-L #2140

-----  
Date: Sat, 19 Feb 2000 17:35:43 EST  
From: N10DL@aol.com  
To: qrp-l@lehigh.edu  
Subject: [63641] DXCC fun with ISOTRON 20 meter antenna  
Message-ID: <88.f497df.25e074bf@aol.com>

MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

Thought I would put the ISOTRON antenna to the test this weekend to see how good it really is. I decided to work the contest from my family room so I could have a nice fire while working the contest. Put the antenna on a 8 Ft. PVC mast next to my desk , in the corner of the room. it is just leaning up against the wall. Attached my ZM-2 tuner to the Wilderness SST-20 and tuned it up. this gives me 2 watts out.

Got on the air bout 2:15 PM local here in NH and searched out the band. Heard NR4M calling CQTEST and gave him a call. He came right back to me from Virginia. He was so loud that I thought I was just lucky.

Here is a partial list of the calls I was able to work from this setup. This has to say something about this amazing antenna, considering the way I had it set up in my family room.

N1WR MD  
W3MYA ?  
W4NF VA  
K8LX MI  
LA8W NORWAY  
SK3W SWEDEN

EA5DCL SPAIN

This gives me several new countries, which is why I want to be in the contest anyway. this is so much fun. I have a friend making me a collapsable metal antenna mast that will reach 8 or 10 Ft. He will make it so it will easily fit in my suitcase. this way I can take it with me and have lots of fun while on the road. I have made the antenna easy to break down to fit in the bag. I am truly suprised that this antenna was able to get out the way it did.

I am a happy camper. Just thought I would give my thoughts on this...

Aron

N10DL/arp

Bedford, NH

FISTS#4110 QRP-L#1326 G-QRP#9946 SOC#10

-----  
Date: Sat, 19 Feb 2000 18:24:16 -0500  
From: "Kevin F. Glynn" <kfglynn@mindspring.com>  
To: <qrp-l@Lehigh.EDU>  
Subject: [63642] A Friend Needs HW-16 Schematic  
Message-ID: <001301bf7b30\$7157f660\$2228f7a5@oemcomputer>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hi gang,



A friend of mine has a problem with his HW-16 and needs a schematic to repair the rig.

Does anyone have the schematic available? Will cover copying/shipping costs, etc.

Thanks for the help.

72 Kevin N2T0  
Brooklyn, NYC  
kfglynn@mindspring.com

-----  
Date: Sat, 19 Feb 2000 17:36:19 -0600  
From: Dave Sjolín <sjolin@swbell.net>  
To: Qrp-l Reflector <qrp-l@Lehigh.EDU>  
Subject: [63643] Fox: Preliminary Results - N0IT - Revised  
Message-ID: <38AF28F3.10537084@swbell.net>  
MIME-version: 1.0  
Content-type: text/plain; charset=us-ascii  
Content-transfer-encoding: 7bit

Guess I should have typed this up this morning rather than last night. Quite a few errors crept into the log as I copied it over electronic form. Please check and if you find anything that I still have wrong, please let me know. Thanks again.

Time	Call	MYRST	URRST	QTH	Name	#	PWR	Points
01:00	N5UW	559	559 OK	Clif	478	--	1	
01:02	N5TW	579	570 TX	Tom	1474	--	1	
01:03	N4ROA	599	579	VA	Dan	970	--	1
01:04	N0DT	559	589 MO	Dan	1004	--	1	
01:05	N0EA	559	559 MO	Wayne	1058	--	1	
01:08	K0EVZ	569	569 ND	Doc	861	--	1	
01:09	W0JOE	559	559 MO	Joe	1901	--	1	
01:10	K5ZTY	559	559 TX	Bill	473	--	1	
01:12	K10J	559	559 TX	OJ	732	--	1	
01:13	N5IW	559	559 TX	Dave	1718	--	1	
01:14	W0CH	559	559 MO	Dave	618	--	1	
01:16	N5EN	559	559 TX	Steve	2071	--	1	
01:17	K5JHP	559	559 TX	Bill	825	--	1	
01:19	WS4S	589	559 TN	Conrad	993	--	1	

01:20	W5YR	559	559	TX	George	1373	--	1	
01:21	WD8KQY	579	559	OH	Gary	446	--	1	
01:23	K5AAR	559	559	OK	Don	1512	--	1	
01:24	AF4PS	579	559	FL	Mac	704	--	1	
01:27	KA5T	559	559	TX	Larry	89	--	1	
01:28	W2XN	559	559	FL	Fred	1728	--	1	
01:30	N1TP	559	559	FL	Tom	1317	--	1	
01:32	N0UR	579	559	MN	Jim	799	--	1	
01:33	NQ7X	559	559	AZ	Floyd	343	--	1	
01:36	NK7M	579	559	AZ	Bob	271	--	1	
01:37	AF5Z	579	559	TX	Bob	984	--	1	
01:39	N0AR	559	559	MN	Scott	1455	--	1	
01:40	AJ4Y	579	559	FL	Paul	1795	--	1	
01:42	W0RW	599	559	CO	Paul	1284	--	1	
01:46	KU7Y	559	559	NV	Ron	17	--	1	
01:50	N8IE	559	559	OH	Dan	1404	--	1	
01:56	K1JD	559	599	RI	John	1945	--	1	
01:58	AE2T	559	559	NY	Al	1664	--	1	
01:59	N9SSA		559	599	MI	Pete	2109	100W	0
02:03	AB7CE		559	559	MT	Roy	1494	--	1
02:04	VE5RC		559	559	SK	Bruce	886	--	1
02:07	K4LL	569	559	KY	Len	--	5W	0	
02:08	W0RSP		569	559	SD	Ade	661	--	1
02:10	N8VAR		559	559	OH	Ron	263	--	1
02:11	AA0ZZ		559	559	MN	Craig	1238	--	1
02:12	W5HNS		569	559	TX	Henry	178	--	1
02:14	KK5LD		599	559	TX	Dan	2052	--	1
02:16	KB9IUA		559	559	IL	Kevin	384	--	1
02:17	K8CV	559	559	MI	Walt	935	--	1	
02:18	K1MG	549	559	CA	Mike	614	--	1	
02:20	WE6W	549	559	CA	Ed	1068	--	1	
02:21	WE7G	559	559	UT	Wayne	481	--	1	
02:23	VE3JC		549	559	ON	John	744	--	1
02:24	KC1FB		559	559	CT	Jim	29	--	1
02:26	VE6EWM		559	559	AB	Earl	1076	--	1
02:28	AB0GO		559	559	CO	Dave	785	--	1
02:29	K5UP	599	559	OK	Glenn	21	--	1	
02:30	N5GJQ		559	599	LA	Mike	--	4W	0
02:35	AE4Y	559	559	GA	Kent	1844	--	1	
02:37	NV4V	559	559	KY	Pete	1721	--	1	
02:39	KG9H	579	559	IL	Frank	2142	--	1	
02:40	WB8YYY		559	559	MD	Curtis	2115	--	1
02:41	KQ5U	559	559	TX	Terry	1603	--	1	
02:43	NK6A	559	599	CA	Don	1517	--	1	

02:45	N0EHW	559	559	MO	Tim	2047	--	1
02:46	N0TU	559	559	CO	Steve	911	--	1
02:50	W7ILW	559	559	AZ	Howard	2010	--	1
02:51	N5IB	559	559	LA	Jim	1913	--	1
02:54	N5LU	579	559	OK	Bill	2009	--	1
02:55	K1VP	559	559	NH	Ed	1960	--	1
02:58	K5OI	559	559	NM	Tim	73	--	1
02:59	KD5CMN	559	599	TX	Mike	1328	--	1
03:00	N9SSA	559	599	MI	Pete	2109	--	1

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Date: Sat, 19 Feb 2000 18:55:14 EST  
 From: EuroM6@aol.com  
 To: N10DL@aol.com, qrp-l@lehigh.edu  
 Subject: [63644] Re: DXCC fun with ISOTRON 20 meter antenna  
 Message-ID: <cc.1cea5f6.25e08762@aol.com>  
 MIME-Version: 1.0  
 Content-Type: text/plain; charset="US-ASCII"  
 Content-Transfer-Encoding: 7bit

I am having a great time in the contest on 10 m, 22 countries in 60 minutes  
 with my in-attic Isotron

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End of QRP-L Digest 1736

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